

### Coomassie Brilliant Blue Stain

<u>Product Name</u>	<u>Product Code</u>	<u>Kit Packing</u>
Coomassie Brilliant Blue Stain	ML046-250ML	250 ml

**Introduction:** Coomassie Brilliant Blue Stain is a Coomassie G-250 methanol-based stain formulated for protein detection in polyacrylamide gel. Protein bands form an intense blue color when stained with Coomassie Brilliant Blue and can be easily distinguished on the gels. This staining is very convenient as it involves a single, ready-to-use reagent and does not modify the target proteins.

**Description:** Coomassie Brilliant Blue G is a very common dye with two similar triphenylmethane groups and is widely used as a staining solution for visualizing proteins on polyacrylamide gels after electrophoretic separation. In acidic condition this dye binds to basic and hydrophobic residues of proteins and changes color from reddish brown to intense blue and as a result protein samples are visualized as blue bands on the gels. During the staining procedure gels are not required to be fixed as this solution contains methanol and acetic acid. One initial water wash step is required for the removal of residual SDS (during SDS-PAGE) as it interferes with the staining procedure. Staining is usually done for an hour and then a methanol: acetic acid destaining step is required for washing off excess unbound dye from the gel.

**Application:** Coomassie Brilliant Blue Stain is used for the detection of protein bands on acrylamide gel while doing SDS-PAGE. During this staining procedure proteins are not chemically modified and therefore, the protein bands can be completely destained and recovered for sequencing.

**Composition:** Coomassie Brilliant Blue Stain contains 0.25% (w/v) Coomassie Brilliant Blue G-250 in 45% (v/v) methanol and 10% (v/v) glacial acetic acid.

**Properties:**

Appearance	:	Blue colored solution
Clarity	:	Clear and free of particles
Suitability test	:	This solution has been tested and is suitable for use for staining protein bands on acrylamide gels.

**Storage conditions:** Coomassie Brilliant Blue Stain has to be stored at 15 - 25° C.

**Technical Assistance**

At HiMedia we pride ourselves on the quality and availability of our technical support. For any kind of technical assistance, mail at [mb@himedialabs.com](mailto:mb@himedialabs.com).

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Registered Office :

23, Vadhani Industrial Estate, LBS Marg,  
Mumbai - 400 086, India.  
Tel. : (022) 4017 9797 / 2500 1607  
Fax : (022) 2500 2286

Commercial Office

A-516, Swastik Disha Business Park,  
Via Vadhani Indl. Est., LBS Marg,  
Mumbai - 400 086, India

Tel: 00-91-22-6147 1919  
Fax: 6147 1920, 2500 5764  
Email : [info@himedialabs.com](mailto:info@himedialabs.com)  
Web : [www.himedialabs.com](http://www.himedialabs.com)